



# **NON-PATENT LITERATURE (NPL)**

## **ONLINE RESOURCES FOR TECHNOLOGY CENTER 1600**

**INSTRUCTOR:**

**OFFICE LOCATION:**

**TELEPHONE NUMBER:**

**EMAIL ADDRESS:**

**BIOTECH STIC LIBRARY LOCATION: CM1- 1<sup>st</sup> Floor**

This presentation was designed by Edward Hart – Technical Information Specialist/Searcher – Biotech STIC Library and Tammy Field (ITRP TC1600), in collaboration with the SPE Resource Team of TC 1600.





# **General Training Information**

**Charge Code: 160484 – 2hrs**

**Practice Charge Code: 160406 – 1hr**



# **Objectives**

## **Today's session help you to:**

Navigate and Identify art specific resources on the intranet NPL Page.

Utilize NPL to identify and retrieve prior art specific to biotechnological areas on the internet.

Conduct subject, author, and date specific searches utilizing various internet resources.



# Prior Art Resources

NPL Literature Web Page

*PubMed, ProQuest,  
Science Server*

Commercial  
Databases  
*STN, Dialog*

Prior  
Art

Public Websites  
*Knovel, Google,  
AltaVista, Teoma*

In-House  
Resources  
*EAST, WEST,  
FPASIII*



# NPL Search Sites

## Databases

- Medline – PubMed/Entrez
- ProQuest

## Books and Journals

- STIC Online Catalog
  - Ordering through ILL
- netLibrary
- ScienceServer

## • Reference Tools

- PDR & Stedman's Medical Dictionary

## • Additional Internet sites

- Knovel
- Google, AltaVista, Teoma



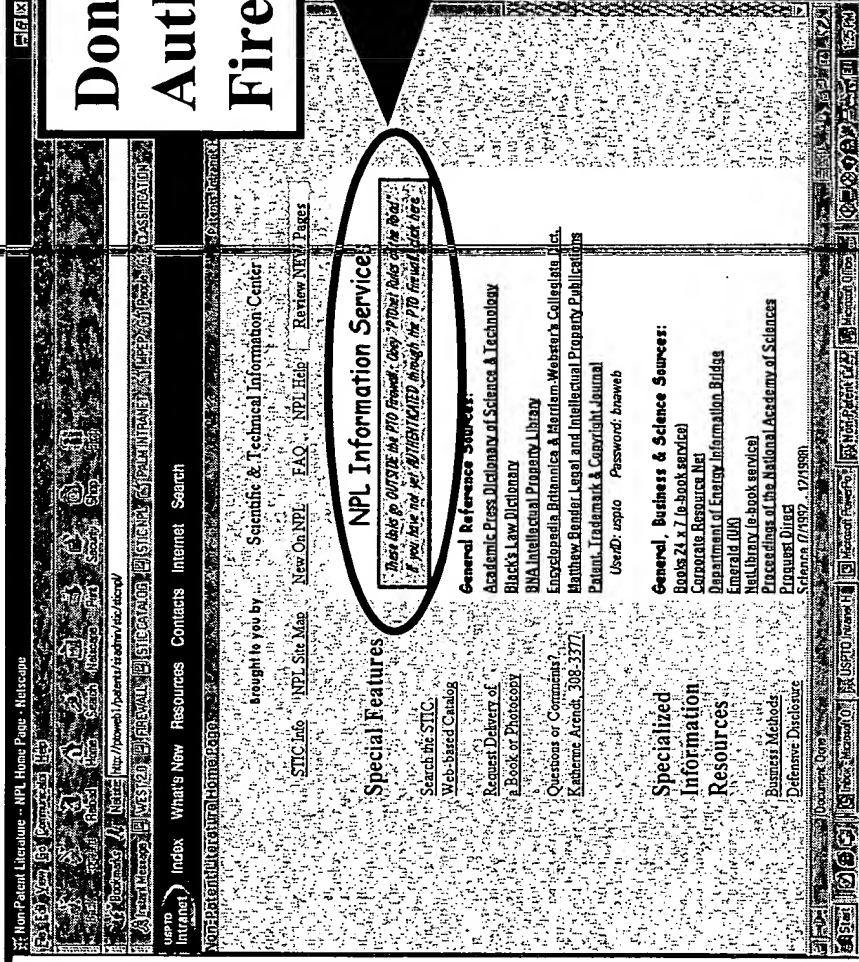
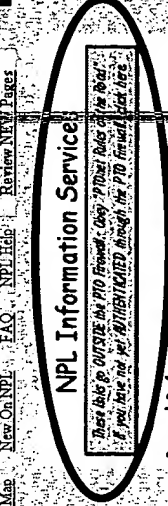


# Fourth Way to Access NPL

(Older site – Some examiners may have bookmarked)

<http://ptoweb1/patents/siradmin/stic/sticnpl/>

Don't Forget to  
Authenticate through  
Firewall



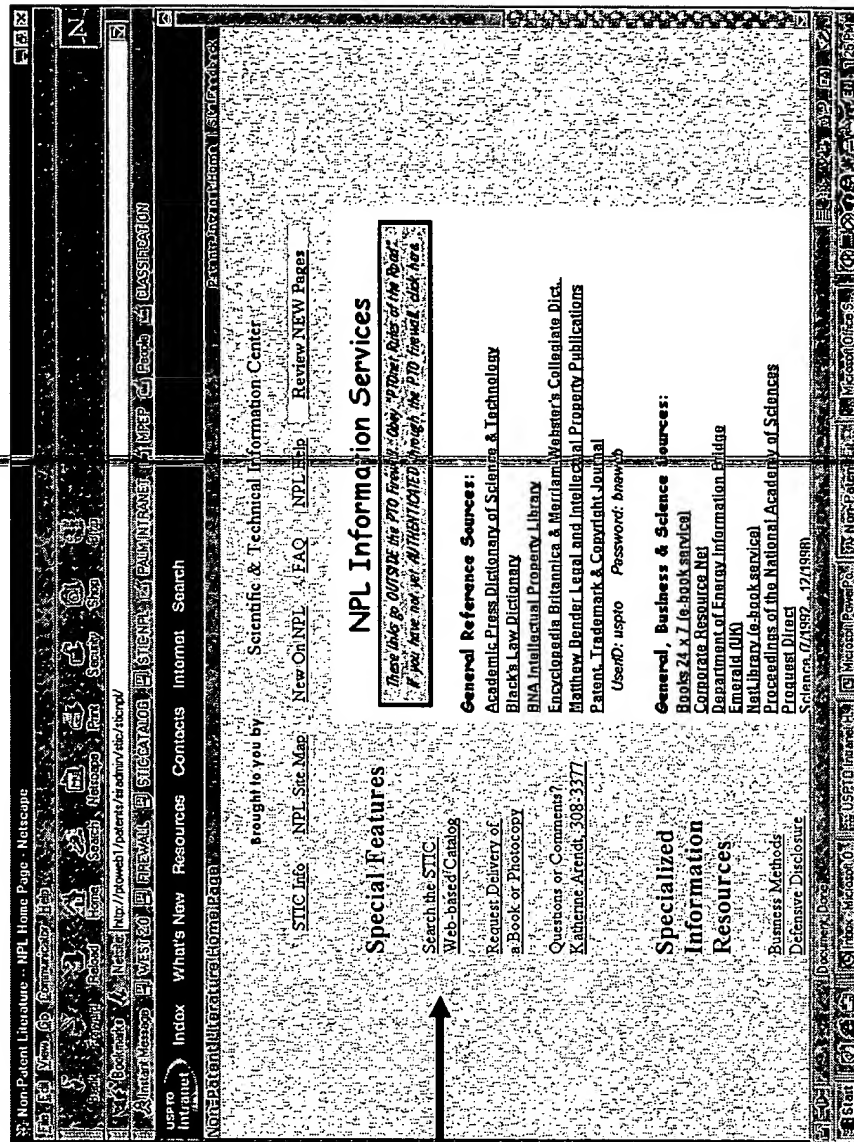
H02167.03

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# Access to Full Text Journals (Older Site)



STIC's  
Web-  
based  
Catalog





# Full-text Journals (Older site)

NPL for TC 1600 - Microsoft Internet Explorer provided by USPTO

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Favorites Print Full Screen Size

Selected Journal Titles of Interest to TC 1600

Title	Abstracts	Full Text
American Journal of Human Genetics	7/1/97.	3/1/96.
American Journal of Pathology		10/1/97.
American Journal of Physiology	10/1/97.	1/1/96.
Analytical Chemistry	1/1/96.	1/1/98.
Annual Review of Biochemistry	1/1/98.	1/1/95.
Applied and Environmental Microbiology	1/1/92.	1/9/96.
Biochemistry	1/9/96.	1/12/96.
Cell	5/1/74.	1/1/96.
Chemical Reviews	1/1/96.	1/1/94.
Circulation		1/1/94.
Circulation Research	1/1/94.	
Crop Science	1/1/92.	
Developmental Biology	1/1/95.	11/1/95.
Diabetes		1/1/97.
EMBO Journal	1/1/94.	1/97.
Gene	12/30/94.	12/30/94.
Infection and Immunity	1/1/92.	1/95.

Done Local intranet



# **Why use NPL ?**

Desktop access to 7000+ journals via the Internet

Access to several hundred full-text electronic books

Links to tech center specific sites, such as IUPAC (International Union of Pure and Applied Chemistry) and GenBank



# How Can NPL Help You?

- It's direct
- It's easy
- It's on your desktop



# Getting Started

FAQ

Help

Adobe Acrobat

Second copy, licensing

PTO net policy and confidentiality

➤ *Rules of the Road*

Authentication



# Rules of the Road

Click on a Hot Link Button below or click on one of the PTO Business area destinations on the left. Users are reminded that PTO's Rules of the Road when using any automation service

**Rule #5 Don't transmit classified or sensitive data.**

Every attempt has been made to ensure that appropriate security mechanisms are in place for protecting information from unintended access, from within the system or from the outside. However, these mechanisms, by themselves, are not sufficient. PTOnet and PTO System users should ensure that they take appropriate action to safeguard classified or sensitive data. You are instructed to implement the following requirements:

- Don't transmit classified data, data subject to a secrecy order, or data under seal through the Internet or e-mail, unless it has been properly protected through encryption software.
- Don't store or transmit sensitive data without proper protection as defined in applicable Federal laws and regulations. Sensitive data should not be posted in discussion groups or bulletin boards. Data should be considered sensitive if they might be exempt from Freedom of Information Act (FOIA) disclosure or protected under the Privacy Act. Sensitive data include records about individuals in which there is a reasonable expectation of privacy, trade secrets or confidential business information, and confidential information related to Patent and Trademark applications.
- Don't transmit data that are part of PTO's decision making process over the Internet or in public news groups.

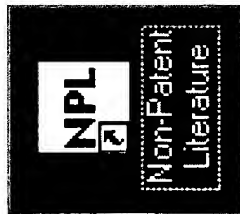


# Authentication

The PTO intranet is private and protected by the firewall  
Most sites accessed are located on the public internet  
Authenticate now at the Firewall



# Firewall Authentication



Office

Microsoft

## Authenticate through Firewall

USPTO Intranet > Index > What's New > Resources > Contacts > Internet > Search

### Scientific and Technical Information Center

NPL Virtual Library

USPTO

Monday, March 25, 2002

STIC's mission is to connect examiners to critical prior art information located in each Technology Center.

Most of the electronic resources listed on this page are accessed via the Internet. You must be authenticated for data to be accessed.

Specialized Information Resources for Technology Centers

Select a Technology Center:

- General Information Resources
- Alphabetical List of E-Resources
- Bibliography of the Month
- Defensive Disclosure Resources
- E-Books and E-Journals
- General Reference Tools
- Legal Resources
- New Book List

USPTO

Start | Document | Desktop | Return | NPL |



# Enter Your Internet User ID and Password

## Client Authentication Remote Service

FireWall-1 message: User:

Login:

press submit when done:

**Submit**

## Client Authentication Remote Service

FireWall1 message: User train01 authenticated by FireWall-1 authentication

Methods:

- ☒ Standard Sign-on
- ☐ Sign-off
- ☐ Specific Sign-on

Select a method then press submit:

**Submit**

Type your Internet Login name >  
Submit.

Type in password > Submit

Select Standard Sign-on





# Electronic Information Centers

**Select 1600**  
**(Biotech/Chem Lib)**



# Biotech-Chem Library: Resources and Services

The screenshot shows the Biotech-Chem Library website in a Netscape browser window. The browser's address bar displays the URL: <http://bioweb/patents/stc/tc-1600.htm>. The website has a dark header with the title "Biotech-Chem Library - Natscape" and a navigation menu with links: Home, About, Search, News, Patents, Resources, Internet, and Search. Below the header, the main content area is titled "Biotech-Chem Library: Resources and Services" and "Scientific and Technical Information Center". It features a circular logo with "STC" and "NC" inside. The text states: "These resources and services provide examiners with access to critical prior art. Most of the electronic resources listed on these Web pages are accessed via the Internet. You must be authenticated for data to be accessed. > [Patent Authentication](#)". There are sections for "Information Resources" (with a note "Contents coming soon") and "Databases" (listing Agricola, DTC STINE, MEDLINE, Proquest Direct, Readers' Guide to Periodical Literature, and STN on the Web). A date stamp "Monday, March 20, 2002" is visible in the top right corner of the browser window.



# Today's Examples

Accessing NPL Databases

Searching an electronic book

Retrieving full-text documents

Browsing a specific journal issue

Requesting Interlibrary Loan (ILL)

Using NPL Reference Tools

Browsing internet sites outside NPL



# **Medline- PubMed/Entrez**

## **Resources Provided by;**

- **NCBI** – National Center for Biotechnology Information

## **Searchable Databases;**

- Medline/PubMed
- GenBank
- OMIM (Online Mendelian Inheritance in Man)



# Select the Search Category of choice

[Back to top](#)
[Location](#)
[http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=PubMed&20](#)

[USP10 Internet](#)
[USP10 Intranet](#)
[USP10 Intranet](#)

# PubMed

[National Library of Medicine](#)

[Protein](#)
[Genome](#)
[Structure](#)
[PopSet](#)
[Taxonomy](#)
[CivMILW](#)
[Books](#)

[Limits](#)
[PreviewIndex](#)
[History](#)
[Clipboard](#)
[Details](#)

Unknown database name PubMed

Enter one or more search terms, or click [Preview/Index](#) for advanced searching.

- Enter author names as smith jc. Initials are optional.
- Enter journal titles in full or as MEDLINE abbreviations. Use the [Journal Browser](#) to find journal titles.

[PubMed](#)
[PubMed](#)
[PubMed](#)
[PubMed](#)
[PubMed](#)

[About E](#)
[Text/View](#)
[Taxonomy](#)

[Entrez](#)
[Overview](#)
[Help](#)
[J.F.](#)
[SNP](#)

[PubMed Services](#)
[Journal Browser](#)
[MeSH Browser](#)

[Single Citation](#)
[Batch Citation](#)
[Matcher](#)

[Clinical Queries](#)
[LinkOut](#)
[Cubby](#)

[New on the Bookshelf](#)

[Immunobiology, 5th ed.](#)

[by CA Janeway, et al.](#)

[Looking to stimulate your interest in Immunology? Need to brush up on your B cell biology? This popular immunology resource](#)

[PubMed Services](#)
[Journal Browser](#)
[MeSH Browser](#)

[Single Citation](#)
[Batch Citation](#)
[Matcher](#)

[Clinical Queries](#)
[LinkOut](#)
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[New on the Bookshelf](#)

[Immunobiology, 5th ed.](#)

[by CA Janeway, et al.](#)

[Looking to stimulate your interest in Immunology? Need to brush up on your B cell biology? This popular immunology resource](#)

[Try LinkOut](#)

[LinkOut is a jumping-off point from PubMed citations to relevant resources on the web, such as, full-text articles, holdings, commentaries, author biographies, practice guidelines, consumer health information.](#)



# PubMed- Taskbar Options

Bookmarks Location <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=PubMed%20>

NCBI

PubMed

Search PubMed

for

Nucleotide Protein Genome Structure Poplite Taxonomy

PubMed

National Library of Medicine NLM

Option buttons

Unknown database name PubMed


Enter one or more search terms, or click [Preview/Index](#) for advanced searching.

Enter author names as smith jc. Initials are optional.


Enter journal titles in full or as MEDLINE abbreviations. Use the [Journal Browser](#) to find journal titles.

PubMed, a service of the National Library of Medicine, provides access to over 11 million MEDLINE citations back to the mid-1960's and additional life science journals. PubMed includes links to many sites providing full text articles and other related resources.

New on the Bookshelf



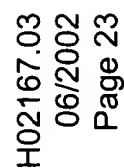
**Cancer Medicine, 5th ed.** Edited by RC Bast, et al. This authoritative and comprehensive oncology resource published by BC Decker, Inc. is now available for browsing and interactive searches on [Bookshelf](#).





**Try LinkOut**

LinkOut is a jumping-off point from PubMed citations to relevant resources on the web, such as, full-text articles, library holdings, commentaries, author biographies, practice guidelines, consumer health information, and research tools. [Example LinkOut resources](#) are available.

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# PubMed - Preview/Index



NCBI  
National Library of Medicine

Search PubMed for

PubMed  
About Entrez  
Text Version  
Entrez PubMed  
Overview  
Help | FAQ  
Tutorial  
New! Noteworthy

Nucleotide  
Protein  
Genome  
Structure  
PopSet  
Taxonomy  
Ontology  
Books

Preview  
Clipboard  
Details

Search

#1 Search nanotechnology

Time 10:59:10 Result 215

Most Recent Queries

Add Term(s) to Query or View Index

- Enter a term in the text box, use the pull-down menu to specify a search field.
- Click Preview to add terms to the query box and see the number of search results, or click Index to view terms within a field.

All Fields [v] [x] [y] [z] [w] [u] [t] [s] [r] [q] [p] [o] [n] [m] [l] [k] [j] [i] [h] [g] [f] [e] [d] [c] [b] [a]

Click AND OR NOT to add a term to the query box.

Related  
Resources  
Order Documents  
NLM Gateway  
TOXNET  
Consumer Health  
Clinical Alerts  
Clinical Trials.gov





# Searching PubMed

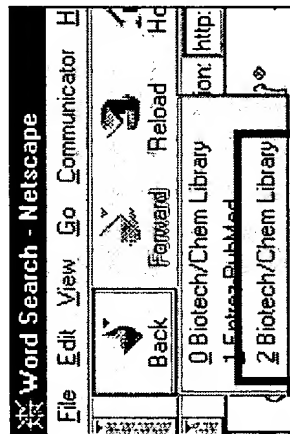
The screenshot shows the PubMed website with the following elements:

- Top Navigation:** NCBI logo, links for PubMed, Entrez, Text Version, Entrez PubMed, Overview, Help | FAQ, Tutorial, New/Noteworthy, PubMed Services, Journal Browser, MeSH Browser, Single Citation, Matcher, Batch Citation, Matcher, Clinical Queries, LinkOut, Caddy, Related Resources, Order Documents, NLM Gateway, TOXNET, Consumer Health, Clinical Alerts, ClinicalTrials.gov.
- Search Bar:** A search box with the text "nanotechnology" entered. Below it are buttons for "Search", "Preview/Index", "History", "Clipboard", and "Data".
- Annotations:**
  - A box on the left says: "Search the term nanotechnology. Select Go button to search keyword". An arrow points from this box to the "Go" button in the search bar.
  - A box on the right says: "Enter one or more search terms, or click [Preview/Index](#) for advanced searching."
  - A box on the right says: "Enter author names as smith, jc. Initials are optional."
  - A box on the right says: "Enter journal titles in full or as MEDLINE abbreviations. Use the [Journal Browser](#) to find journal titles."
- Footer:** "National Library of Medicine NLM" logo.



# ProQuest Direct

Abstract and Full Text Journals  
divided by category and topics




Right click on Back Button of Netscape to access  
Biotech/Chem Library's homepage



# Use ProQuest Direct

Bookmarks NetSite: <http://ploweb/patents/stic/stic-tc1600.htm>




 **Biotech-Chem Library: Resources and Services**

Monday, June 3, 2002

These resources and services provide examiners with access to critical prior art. Most of the electronic resources listed on these Web pages are accessed via the Internet. You must be authenticated for data to be accessed. ▶ [Full-text Authentication](#)

**Information Resources**  
(Contents coming soon)

**Databases**

- Agricola Citations to agricultural literature produced by the National Agricultural Library
- DTIC STINET Scientific and technical information from the Defense Technical Information Center
- EPOQUE EPO's databases, available on stand-alone terminal in CM1 Library
- ProQuest Direct**  [Proquest Direct](#)  [Proquest Direct](#)  [Proquest Direct](#)
- Periodicals to Periodical Literature No full-text articles
- STN on the Web Training and password required. The other link is via the Patent Examiner's Toolkit. On your computer, click on the START button, then on the Pat Toolkit, then on STN Express.



# Select Collections

Bookmarks Location: <http://proquest.umi.com/pqdweb?RQT=30&TS=1023141672>

**ProQuest®** Return to NPL Web Page

Search Methods: Topicfinder Browse Lists

Searching collections: All Collections

Enter a word, words or specific phrase.

Date range:

Publication type:

Search in:

☐ Show results with full text availability only

☐ Show peer reviewed publications

☐ Show total number of articles

**Tips**  
For the best results, enter the most specific words or phrase.

[Text Version](#) [Results](#) [Search Guide](#) [Basic Search](#)

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[Terms and Conditions](#)



# Searching ProQuest Collections

**ProQuest®** Return to NPL Web Page  
Search Methods Topic Finder Browse Lists  
All Collections

Search Results Search Guide Select Collection

Click the checkbox to select the collection for your searches  
☒ Search All Collections  
or Search the following individual collection(s):

- ☐ ABI/INFORM Global
- ☐ Applied Science & Tech Plus
- ☐ Banking Information Source
- ☐ Canadian Serials
- ☐ Career and Technical Education
- ☐ General Science Plus
- ☐ Health & Medical Complete
- ☐ PA Research II
- ☐ PA Research II Newspapers
- ☐ PA Research II Periodicals
- ☐ PA Research II--Peer Reviewed
- ☐ ProQuest Asian Business
- ☐ ProQuest Computing
- ☐ ProQuest European Business

Document Done

Check Search All  
Collections





# Searching by Word

ProQuest®

Return to NPL Web Page

Search Methods

Topic Finder

Browse Lists

Search

Searching collection: All Collections

Enter a word, words or specific phrase.

Breast Cancer and Tamoxifen

Date range: Current (1999 - Present)

Publication type: All

Search in: Citations and abstracts

☐ Show results with full text availability only

☐ Show peer reviewed articles

☐ Show total number of articles

Tips

For the best results, enter the most specific words or phrase.

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Terms and Conditions

? Help

Results

Last search

Recent searches

Marked list &

Durable links

Search Guide

Basic Search

Type in Search term(s) and  
Select Search



# Viewing Options

Select  
Articles

Bookmarks Location: <http://proquest.umi.com/pqdweb>

proquest®

Return to:  
Collections Search Methods: [Topic](#) [File](#)

Searching collections: All Collections

Save

Saves this search as a Durable Link and

At least 30 articles matched your search.

☐ 1. Breast cancer face-off: A new class of drugs may challenge the old warhogs; Susan Brink; U.S. News & World Report, Washington; Jun 3, 2002; pg. 54

☐ 2. PERSONAL JOURNAL -- Home Front -- Health Journal -- Nutritional Supplements May Cut Risk of Cancer. By Tara Parker-Pope; Wall Street Journal, Brussels; May 31, 2002; Europe; pg. P.3

☐ 3. AARP to join generic drug suit: [All Editions]; Jon Chesto; Boston Herald, Boston, Mass.; May 30, 2002; pg. D40

☐ 4. AARP aids lawsuits against drugmakers: [North Sports Final Edition]; BRUCE JAPSEN; Chicago Tribune, Chicago, Ill.; May 30, 2002; pg. 3

☐ 5. Chicago Tribune Inside Health Care Column: Bruce Japsen; Knight Ridder/Tribune Business News, Washington; May 30, 2002; pg. 1

☐ 6. AARP Joins Three Lawsuits Against Large Drug Companies; Robert Pear, New York Times, New York, N.Y.; May 30, 2002; Late Edition (East Coast); pg. A.19

☐ 7. AARP: COMPANIES KEEP GENERIC DRUGS AWAY FROM PUBLIC: THE GROUP JOINED LAWSUITS TO STOP THE SUPPRESSION OF GENERIC COMPETITION.; [FINAL Edition]; Leslie Miller, Associated Press; Orlando Sentinel, Orlando, Fla.; May 30, 2002; pg. A.12

☐ 8. ADVOCATES FOR SENIORS JOIN LAWSUITS AGAINST DRUGMAKERS; [Broward Metro Edition]; Robert Pear, The New York Times, South Florida Sun - Sentinel, Fort Lauderdale, Fla.; May 30, 2002; pg. 6A

☐ 9. IN BRIEF / PHARMACEUTICALS  
Calif.; May 30, 2002; pg. C.2

☐ 10. WASHINGTON IN BRIEF: [FINAL Edition];

Next

Explain icons

Enter a word, words or specific phrase.

Search

Cit/Abstract, Full Text, and/or Page  
Image may be available

Click on Next to continue Review  
of Hits



# Viewing Options

Bookmarks Location: <http://proquest.umi.com/pqdweb?RQ1=307&Sid=1&SPe=111&Rel=10&TS=1023142807>

Return to NPL Web Page

Search Methods Topical Finder Browse Lists

Search Results Search Guide

Text Version

Help

proquest®

Search Methods Topical Finder Browse Lists

Searching collections: All Collections

Saves this search as a Duplicate "Results-Marked List"

At least 50 articles match your search criteria.

11. ☐ AARP Journal Eastern Edition, pg. 75, 1 pgs

12. ☐ New England Journal of Medicine, Boston, May 23, 2002, Vol. 346, Iss. 21, pg. 1609, 3 pgs

13. ☐ Two Corners Nutrition, N.Y., May 28, 2002

14. ☐ An ounce of prevention: Alice Park; Time, New York, May 27, 2002, Vol. 159, Iss. 21, pg. 75, 1 pgs

15. ☐ Personal time: Your health: Sara Song; Time, New York, May 27, 2002, Vol. 159, Iss. 21, pg. 75, 1 pgs

16. ☐ Editorials: Prophylactic oophorectomy to reduce the risk of ovarian and breast cancer in carriers of BRCA mutations; Daniel Haber, The New England Journal of Medicine, Boston, May 23, 2002, Vol. 346, Iss. 21, pg. 1609, 3 pgs

17. ☐ Risk-reducing salpingo-oophorectomy in women with a BRCA1 or BRCA2 mutation: Noah D Kauff; The New England Journal of Medicine, Boston, May 23, 2002, Vol. 346, Iss. 21, pg. 1609, 7 pgs

18. ☐ New cancer drug is hailed as massive step forward: [FIRST Edition]; Birmingham Post (Birmingham (UK); May 21, 2002, pg. 7

19. ☐ Cancer drug is dramatic breakthrough: [NORTH WALES Edition]; Daily Post, Liverpool; May 21, 2002, pg. 2

20. ☐ Ovary Removal May Foil Cancer: [NASSAU AND SUFFOLK Edition]; Dethia Ricks, STAFF CORRESPONDENT; Newsday, Long Island, N.Y.; May 21, 2002, Combined editions; pg. A.16

Explain Icons

First Previous Next 1-10 21-30

Enter a word, words or specific phrase.

breast cancer and tamoxifen

Search

Date range:

Current (1999 - Present)

Left-click on Hyperlink of Interest or  
Camera symbol to view image

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# Article Format Options

Bookmarks

Locations

http://proquest.umi.com/hqolweb?D-ID=000000120774609&Fm=3&D-ID=1&M=1&SId=1&AQI=309

Return to NPL Web Page

Search Methods

Topic Finder

Browse Lists

Search

Results

Search Guide

Text Version

Article Display

Search Collections: All Collections

Email Article

Print Article

Save Link

Article 14 of 50

Mark article

Saves this document as a Durable Link under "Results-Marked List"

**An ounce of prevention**  
Time, New York, May 27, 2002; Alice Park;

Volume: 159  
Issue: 21  
Start Page: 75  
ISSN: 0040781X  
Subject Terms: Cancer  
Physicians  
Tumors  
Clinical trials  
Prevention

Publisher Info

Article format

Full Text

Cite/Abstract

Full Text

Page Image

Select Article

Format of

Choice from

Drop-Down

Menu

**Abstract:**  
Breast cancer is a prime example. For more than two decades, women with early stage, estrogen-sensitive breast cancers have been treated with surgery followed by a combination of tamoxifen and chemotherapy. Adding tamoxifen seemed to make sense, since it blocks estrogen's cancer--promoting effects. It turns out, however, that tamoxifen may act as a spoiler, preventing the chemotherapy agents from entering cancer cells and doing their job.

**Full Text:**  
Copyright Time Incorporated May 27, 2002  
[Headnote]  
Cancer doctors gather this week to share the latest research on keeping tumors at bay. Here is a preview By Alice Park



# You Have a Reference

Hess EJ

Migraines in mice?

Cell 1996 Dec 27; 87(7):

1149-51

➤ Now you need to  
retrieve and print the  
full article

# Locating a Reference

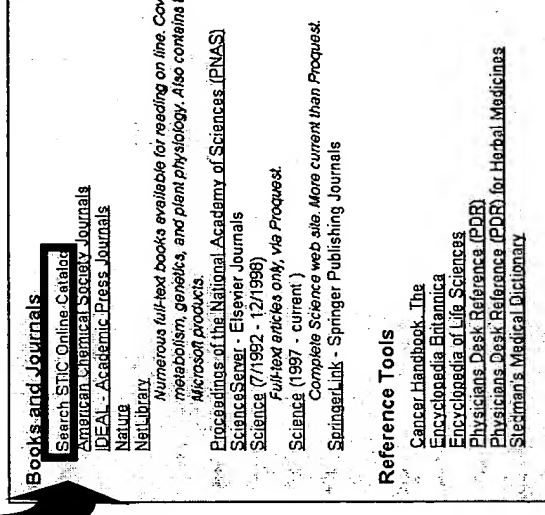
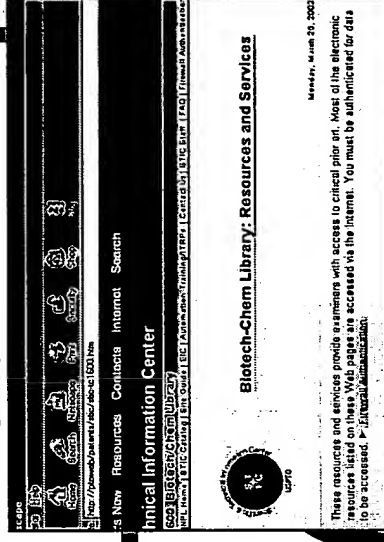
Where do you go to  
find the journal?

Start by choosing under

**Books and Journals,**

**Search STIC Online  
Catalog**

Right click on Back Button of Netscape to access Biotech/Cem Library's  
homepage





# Search the Title Alphabetical Listing

## Searching STIC Online Catalog



Select one of the following:

- General Keyword
- Title Alphabetical**
- Title Keyword
- Author Alphabetical
- Subject Alphabetical
- Subject Keyword
- Call Number Browse
- ISSN
- ISBN
- US Patent Classification

Select Title of Publication containing the search word "cell".

Search for:

CELL

Search

Type the word "cell" in search box

# Catalog Results

Hyperlinks are designated in Blue, Underlined areas

Browse and Select the title that most closely matches search needs

WebPAC: Scan Results for STIC Online Catalog - Netscape

Scan Results for STIC Online Catalog

Your Scan: Title Browse = cell

Cell. . . . . 1

The cell: a molecular approach / . . . . . 1

Cell activation and apoptosis in HIV infection: implications for pat 1

Cell adhesion and human disease / . . . . . 1

Cell adhesion: fundamentals and biotechnological applications / . . . 1

Cell analysis / . . . . . 1

Cell and molecular biology of pancreatic carcinoma: recent developme 1

Cell and tissue culture: laboratory procedures in biotechnology / . . 1

Cell and tissue culture techniques for cereal crop improvement: pr 1

Cell and tissue regeneration: a biochemical approach / . . . . . 1

Email [katherine.aranda@uspto.gov](mailto:katherine.aranda@uspto.gov) with any questions or comments about the STIC Online Catalog.



# STIC Library Subscribes to Online Version



## Long View for STIC Online Catalog

Your Search: Title Browse = Cell  
Displaying Record: 1 of 1

Select Hyperlink to  
view

Title	Cell
Inprint	Cambridge, Mass., MIT Press. 1974-
Dates of Pub	v. 1- Jan. 1974-
Description	v. ill. 28 cm.
URL	<a href="http://www.cell.com/contents-by-date.0.shtml">http://www.cell.com/contents-by-date.0.shtml</a> Click here to see page images of articles (1996 -)
Frequency	Monthly (except semimonthly Oct.-Dec.) <, Jan. 1981->
Subjects	Cytology --Periodicals. Virology --Periodicals.
ISSN	0092-8674
Biotechnology and Chemical Library Microfilm	QH573 .C38 Microfilm
Biotechnology and Chemical Library Microfilm	QH573 .C38 Microfilm
Available	v. 16 1979 c.1
Available	v. 17 1979 c.1

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# Areas to Navigate in the Journal Website

Left Click  
Here to  
Search

Cell

Search

Archive

Subscribe

Quick Search

Author

Current Issue

March 23, 2001; 104 (6)  
Next: April 6

Featured Article

Unfolding of Cholera Toxin by  
PDI  
Tsai et al.

SMADs, STATs, Connexins  
*Antitubercular Therapy*

ZYMED

Feedback

Help

Full Text and Summaries

2000

2001

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**Migraines in Mice?**  
Ellen J. Hess<sup>1</sup>  
<sup>1</sup> Department of Neuroscience and Anatomy, Pennsylvania State University College of Medicine, Hershey, Pennsylvania 17033

Recently, the ion channel mutations causing both familial hemiplegic migraine (FHM) and episodic ataxia type-2 (EA-2) were identified as defects in the human voltage-dependent calcium channel  $\alpha_{1A}$  subunit (Ophoff et al., 1996 □). Simultaneous with the identification of the FHM/EA-2 gene defects, the mutations underlying the tottering and leaner mouse phenotypes were identified as defects in the murine voltage-dependent calcium channel  $\alpha_{1A}$  subunit (Fletcher et al., 1996 □). Because these genes are homologs, the mouse mutants tottering and leaner may be instrumental in unraveling the pathogenesis of FHM and EA-2.

Inherited ion channel mutations or "channelopathies" are the cause of several neurologic disorders in humans. Hypokalemic periodic paralysis, which is characterized by intermittent weakness, results from a calcium channel mutation (Placek et al., 1994 □), whereas hyperkalemic periodic paralysis is caused by a sodium channel mutation (Cummins et al., 1993 □). Episodic ataxia type 1 is produced by a point mutation in a potassium channel (Browne et al., 1994 □). The distinguishing phenotypic feature of these channelopathies is the transient



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## Migraines in Mice?

Ellen J. Mess  
Department of Neuroscience and Anatomy  
Pennsylvania State University College of Medicine  
Hershey, Pennsylvania 17033

Recently, the ion channel mutations causing both familial hemiplegic migraine (FHM) and episodic ataxia type-2 (EA-2) were identified as defects in the human voltage-dependent calcium channel  $\alpha_1$  subunit (Ophoff et al., 1996). Simultaneous with the identification of the FHM/EA-2 gene defects, the mutations underlying the tottering and leaner mouse phenotypes were identified as defects in the murine voltage-dependent calcium channel  $\alpha_1$  subunit (Flecher et al., 1998). Because these genes are homologs, the mouse mutants tottering and leaner may be instrumental in unraveling the pathogenesis of human FHM and EA-2.

## Minireview

an allele of tottering that causes profound chronic ataxia associated with perisylvian Purkinje and granule cell loss throughout the anterior cerebellum and reduced cerebellar size. Like tottering mice, spike and wave discharges have been detected in leaner mice, but the paroxysmal convulsions are never observed. Because of the dramatically different phenotypes, *tg* and *tg<sup>+</sup>* were initially characterized as mutations of different genes (Sikman et al., 1995). However, like FHM and EA-2, genetic linkage and complementation studies demonstrated that *tg* and *tg<sup>+</sup>* are different alleles of a single genetic locus.

**Calcium Channel  $\alpha_1$  Subunits**  
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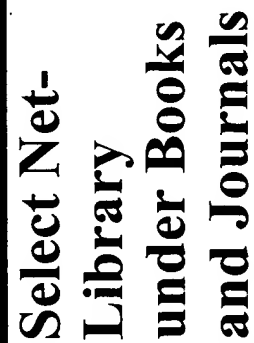


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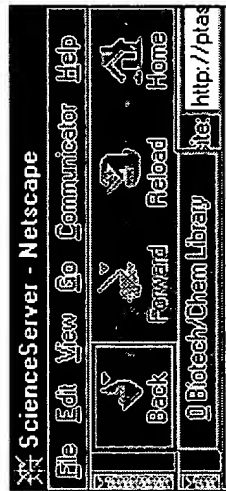
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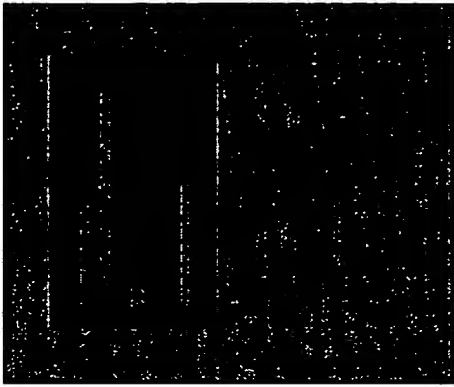
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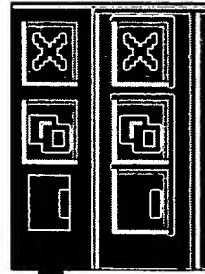


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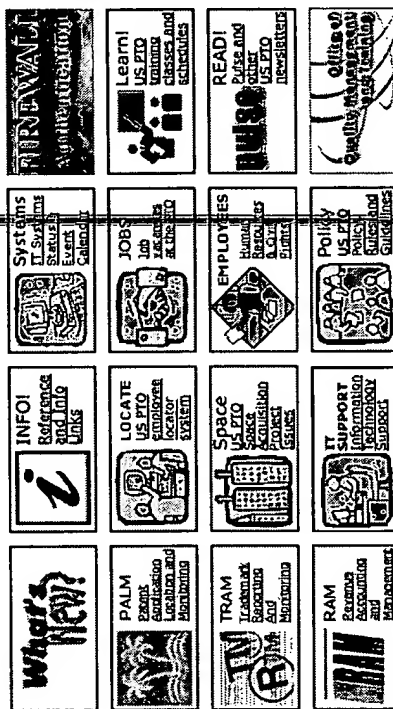
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- Mechanics & Mechanical Engineering
- Plastics & Rubbers
- Safety, Health & Hygiene
- Semiconductors & Electronics
- Surface Engineering

**Publisher Areas:**

- Rapra
- Royal Society of Chemistry
- Society of Plastics Engineers
- Society of Vacuum Coaters
- U.S. Department of Agriculture
- U.S. Department of Commerce
- U.S. Department of Defense
- U.S. Department of Health and Human Services
- U.S. Department of the Navy
- Woodhead Publishing



# Perform Site Keyword Search

Address [http://www.knovel.com/knovel2/Show\\_Books.jsp?SpecID=10045](http://www.knovel.com/knovel2/Show_Books.jsp?SpecID=10045)

**knovel**  
Engineering & Scientific Online References

Path: Home/ Biochemistry, Biology & Biotechnology

**Site Keyword Search:**  
Enter one or more keywords  
**Hybrid vaccines**  
Select Boolean  
☒ AND ☐ OR ☐ NOT  
Enter additional keywords (optional)  
\_\_\_\_\_  
Select subject area (optional)  
**Biochemistry, Biology & Biotechnology**

**Search Tips:**

- ▶ Separate keywords by spaces.
- ▶ Keywords entered in the same box are searched with NEAB proximity.
- ▶ Do not enter Booleans in keyword boxes.

**Content News:**

- ▶ [My Books](#)
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- ▶ [Recently Released](#)
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[Home](#) [Site Keyword Search](#) [Keyword Search](#) [Alphabetical List](#)

**Subject Area: Biochemistry, Biology & Biotechnology**

- ◊ Biochemistry
- ◊ Biology
- ◊ Biotechnology

**Publisher Bundles: Biochemistry, Biology & Biotechnology**

**Interactive Features:**

- ▶ [Interactive Tables](#) | ▶ [Interactive Graphs](#) | ▶ [Table of Contents](#)

**Interactive Data Tables**  
Search, copy and paste, or sort dynamic data tables from your favorite scientific reference books.

**Interactive Graphs**  
Take data analysis and calculation to the next level. Interactive graphs are more than just static line drawings in a book.

**Advanced Search Features**

- Apes of the World - T
- Basic Concepts in Bio
- Biology and Manage
- Biotechnological Inc
- Biotechnology for Wa
- Cereal Biotechnology
- Fermentation and Bio
- Gazelles and Their P
- Housing, Care and Psychologica...
- Iguanas of the World - Their B...

[Home](#) [Site Keyword Search](#) [Keyword Search](#) [Alphabetical List](#)

[http://www.knovel.com/knovel2/keyword.jsp](#)



# Knovel's Available books

Identifies Search Results

Select Text to View Location of Hit terms

Search Results - Microsoft Internet Explorer provided by USPTO

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discard

http://www.knovel.com/knovel2/keyword.jsp

Knovel Engineering & Scientific Online References

There are 3 match(es) in 3 book(s) found for Term 1 = hybrid And Term 2 = vaccines

Refine Results by: Search all references

Book

Results

Rank

Date

(records)

Text (pages)

Handbook of Industrial Membrane Technology ©1990

Table of Contents

Pharmaceutical and Biotechnology Applications

naartje ... zymotachygraph

7.1 Introduction

Benders' Dictionary of Nutrition and Food Technology (7th Edition) ©1999

Table of Contents

Cereal Biotechnology ©2000

Done

Home



# Knovel – View/Navigation Options

Pharmaceutical and Biotechnology Applications - Microsoft Internet Explorer provided by USPTO

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites History Mail Print

100%

Pharmaceutical and Biotechnology Applications

The diversity of applications for UF in the pharmaceutical industry is unequalled in any other industry group. Concentration, purification, desalting, fractionation and sterilization are all practiced in one form or another. In some cases, the product is in the retentate; in others it is in the permeate. Occasionally, both retentate and permeate contain valuable products. The fact that all of these operations are possible with UF at ambient temperatures without phase change or addition of chemicals/solvents makes it an ideal separation tool for labile drugs and biologicals. Proteins, polysaccharides, vitamins, hormones, viruses, vaccines and antibiotics are all processed with UF. Even the water to make up these pharmaceutical solutions is often sterilized and depyrogenated by UF (see the discussion on ultrapure water in an earlier section of this chapter).

One of the fastest growing markets for UF and chromatography is in biotechnology. Broadly defined, biotechnology includes any technique that uses living organisms or parts of organisms to make or modify products, to improve plants or animals, or to develop microorganisms for specific uses. In this sense, biotechnology has been practiced by man since the dawn of civilization in baking, brewing, and cheese making. Today's new biotechnology focuses on applications for agriculture and industry. To date, most applications in industry are part of the pharmaceutical industry, which is why we are considering UF and biotechnology applications together.

"New biotechnology" focuses on the industrial use of recombinant DNA (r DNA) and cell fusion. For example, "old biotechnology" would be fermentation but "new technology" seeks to use r DNA to produce a product with a higher alcohol content. Genetic engineering can now take a microorganism and slip it into the genetic material of another organism. The microbe to perform differently and creates a new product with delays and chances which occurs in cross-breeding of plants and animals. This makes possible the synthesis of new hormones, insulin and interferon.

The commercial success of r DNA and cell fusion technologies is dependent on advances in "bio-process engineering". Most industrial biological syntheses are carried out on a batch scale, with a small amount of product recovered from large quantities of water, cellular components, nutrients, and wastes. It is in this

Thumbnail

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Viewing Options

Menu Options


Close out of this window and Right Click on Back button to Return to Knovel Homepage

# Knovel Online References


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
**Featured Classics:**




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[Description](#) [Table of Contents](#)




**Chemical Resistance of Plastics and Elastomers (3rd Edition)**  
[Description](#) [Table of Contents](#)




**Marks' Standard Handbook for Mechanical Engineers (10th Edition)**  
[Description](#) [Table of Contents](#)




**Machinery's Handbook (26th Edition)**  
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**Perry's Chemical Engineers' Handbook (7th Edition)**  
[Description](#) [Table of Contents](#)



**CRC Handbook of Chemistry and Physics (3rd Electronic Edition)**  
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**Lange's Handbook of Chemistry (15th Edition)**  
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**Concise Encyclopedia of Plastics**  
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**knovel Interactive Features:**

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Publishers use knovel software to create portals, intranets and extranets. For more information, please call (607) 337-5600 or e-mail:

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**Notice: Netscape Users** [Click here](#).



# E-book Access Using Knovel

Address <http://www.knovel.com/knovel2/acc.jsp?spaceID=10093&BookID=34>



Engineering & Scientific Online References

Path: Home / Chemistry & Chemical Engineering / General References / CRC Handbook of Chemistry and Physics (3rd Electronic Edition)



CRC Handbook of Chemistry and Physics (3rd Electronic Edition)

Table of Contents Data Search Search Results Order Now Help Logout



This 3rd electronic edition follows the 81st edition of the print Handbook in terms of content. There are several updated and expanded tables: Fundamental Physical Constants (the new set of CODATA recommended values, replacing the 1986 set); The Elements (descriptive texts on the occurrence, properties, history, and uses of all the chemical elements); Dissociation Constants of Organic Acids and Bases (expanded by 50%); Dipole Moments (revised and expanded); Threshold Limits for Airborne Contaminants (including the most recent recommendations).

## Table of Contents

⊕ Preface

⊕ Interactive Tables

⊕ Section 1: Basic Constants, Units, and Conversion Factors

⊕ Section 2: Symbols, Terminology, and Nomenclature

⊕ Section 3: Physical Constants of Organic Compounds

⊕ Section 4: Properties of the Elements and Inorganic Compounds

⊕ Section 5: Thermochemistry, Electrochemistry, and Kinetics

⊕ Section 6: Fluid Properties

⊕ Section 7: Biochemistry

⊕ Section 8: Analytical Chemistry

Data

Text

Text

Type in

Keywords,

amino acids

Then Select

Search

X02166.03  
06/2002  
Page 71



# WEB BROWSERS

Web Browser for searching relevant  
biotechnology sites

- **Google**
- **Alta Vista**
- **Teoma**





# GOOGLE - Main Screen

Address http://www.google.com/

Search New Next Customise

**msn® Search**

Search the Web for:

Found 'google'

FEATURED SITES

- Google
- Search the Internet

WEB DIRECTORY SITES

- Google - Help Central
- Google - About Us
- Google Toolbar
- Google Groups
- Google - Advanced Search
- Unclesam Google Search
- Googlewhacking
- Internet Magazine - 15
- Greatest Events in Net History

NEXT

Results for 'google' @  
Amazon.com

About Results

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Web Images Groups Directory

Google Search I'm Feeling Lucky

• Advanced Search

• Preferences

• Language Tools

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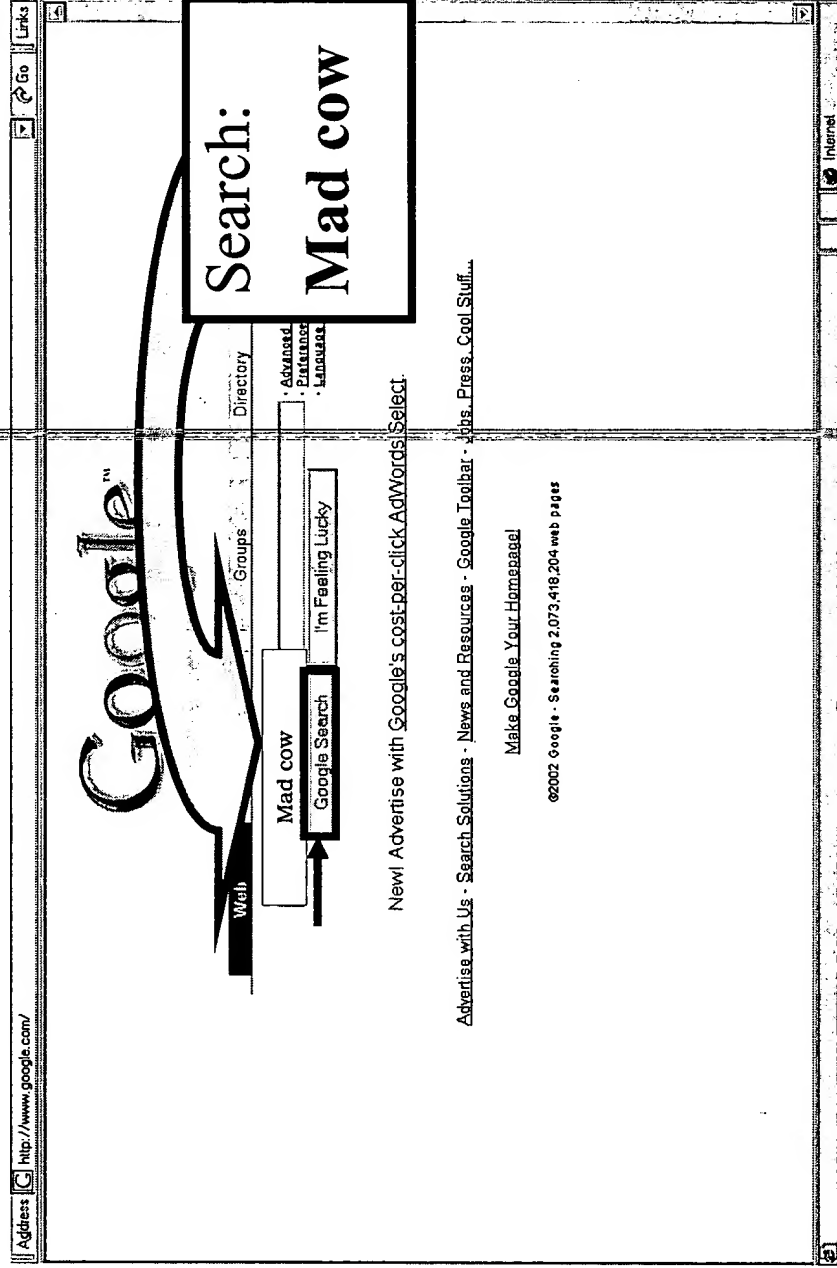
Make Google Your Homepage

©2002 Google · Searching 2,079,418,204 web pages

Tab  
Options



# GOOGLE - Searching





# Google Search Results

Hyperlinks  
are bolded  
and  
underlined

Google™

Advanced Search Preferences Language Tools Search Tips

Google Search

Web Images Groups Directory

Searched the web for mad cow.

Result Set Info

Results 1 - 10 of about 460,000. Search took 0.07 seconds.

Tip: In most browsers you can just hit the return key instead of clicking on the search button.

Categories: [Society > Lifestyle Choices > ... > Health Concerns > BSE - Mad Cow Disease](#)  
[Health > Conditions and Diseases > ... > Infections > Creutzfeldt Jakob Disease](#)

News: [Officials 'quite confident' Israeli beef safe from Mad Cow](#) (Haaretz Daily Israel - 23:07 2 Jun 2002)

[Official Mad Cow Disease Home Page](#)  
... site . The Official [Mad Cow Disease Home Page](#). You are what you eat:  
now serving number Bovine-CJD: might you already have it? ...  
Description: Contains thousands of articles on [mad cow](#) and other diseases.  
Category: [Society > Lifestyle Choices > ... > Health Concerns > BSE - Mad Cow Disease](#)  
[www.mad-cow.org/ - 24k - Cached - Similar pages](#)

[Official Mad Cow Disease Home Page](#)  
... The Official [Mad Cow Disease Home Page](#). Bovine-CJD: might you already have it? ...  
Description: The Internet's largest site for [mad cow](#) disease. BSE, scrapie, CJD, and other prion diseases. Coverage...  
Category: [Science > Technology > ... > BSE - Bovine Spongiform Encephalopathy](#)  
[www.cyber-dyne.com/~tom/mad\\_cow\\_disease.html - 4k - Cached - Similar pages](#)

[mad cow disease and cid](#)  
... [Mad Cow Disease](#) (Bovine Spongiform Encephalopathy, Chronic wasting disease). ...  
[Mad Cow USA/Canada - Mad Cow Europe, ... Highlighted Articles. ...](#)  
Description: Information from the Organic Consumers' Association related to [mad cow/deer/pig/alk disease in the USA](#).  
Category: [Health > Conditions and Diseases > ... > Infections > Creutzfeldt Jakob Disease](#)

[Cow on eBay.](#)  
Low Prices - Millions of Items.  
Buy or Sell on eBay Here!  
[www.ebay.com](#)  
Interest: [BSE](#)  
[See your message here...](#)

Sponsored Links

Internet



# AltaVista – Main Screen

Tab  
Options

AltaVista - The Search Company - Microsoft Internet Explorer provided by USP10

File Edit View Favorites Tools Help

Sup Refresh Home Search Favorites History Mail Print Discuss

altavista.com/

**altavista**  
THE SEARCH COMPANY

Best Prices on Televisions!  
at **Deadline**

click here

Family Filter: off Help

Search Advanced

Any language  
Any language

English Chinese Czech Danish Dutch Estonian Finnish French German Greek

marketplace

1st Mortgage Rates  
ERP Training CBIs  
Inland Storage  
Finance Quotes  
Line Sportsbook

Auto Insurance  
Inkjet Refills  
\$2.95 Domain Names  
Life Insurance  
Online Gambling  
Cheap Web Hosting  
Attend IT Training  
Motorcycle Insurance  
Post Jobs Now  
Gambling Online

Web Resources

Shopping  
Electronics Video Cam  
Autos  
New Used Research  
Personals & Dating  
Pictures & Profiles Dating Tips  
Travel  
Flights Cars Hotels  
Careers  
Find Jobs Post Jobs Resumes  
Auctions  
Electronics Collectibles

Tools

Translate  
Maps  
Yellow Pages  
People Finder  
Shopping  
Real Searches  
Search Settings  
More >>

Web Directory

Computing  
Gaming  
Home  
Insurance  
Movies  
Music  
People & Chat  
Entire Directory >>

Breaking news: Palestinian Court Orders Release of T...

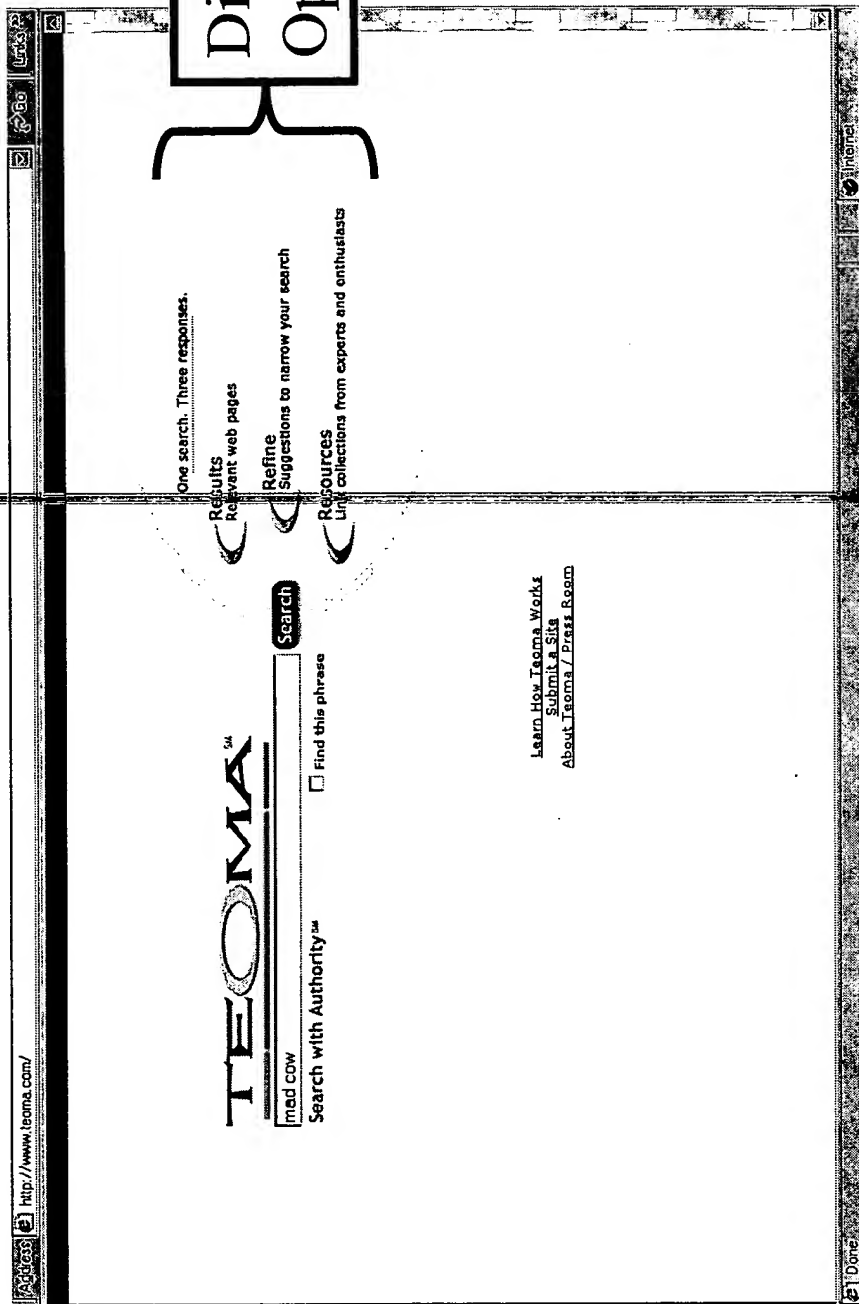
mod cow

AltaVista Worldwide: Australia Brazil Canada France Germany Italy Spain UK More>>  
Business Solutions: Submit a Site Express Inclusion Advertise With Us AltaVista Software

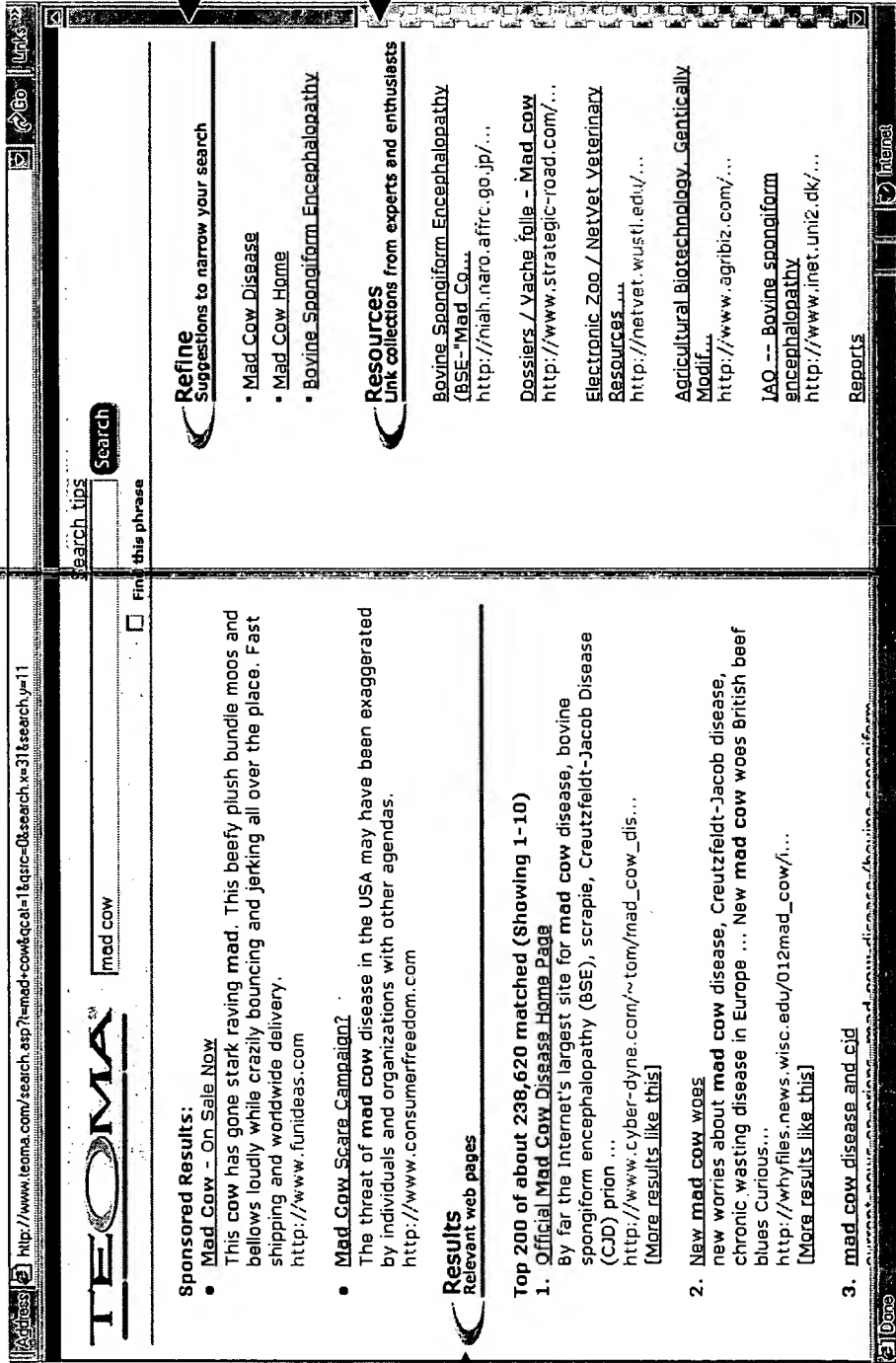
Internet



# Teoma – Main Screen



# Teoma's Results Page Format



The screenshot shows a web browser window displaying search results for the query "mad cow". The browser's address bar shows the URL: [http://www.teoma.com/search.asp?term=mad-cow&cat=1&qsrc=0&search\\_v=31&search\\_u=11](http://www.teoma.com/search.asp?term=mad-cow&cat=1&qsrc=0&search_v=31&search_u=11). The search bar contains the text "mad cow".

**TEOMA**

**Sponsored Results:**

- **Mad Cow - On Sale Now**  
This cow has gone stark raving mad. This beefy plush bundle moos and bellows loudly while crazily bouncing and jerking all over the place. Fast shipping and worldwide delivery.  
<http://www.funideas.com>
- **Mad Cow Scare Campaign?**  
The threat of **mad cow** disease in the USA may have been exaggerated by individuals and organizations with other agendas.  
<http://www.consumerfreedom.com>

**Results**  
Relevant web pages

Top 200 of about 238,620 matched (Showing 1-10)

1. **Official Mad Cow Disease Home Page**  
By far the Internet's largest site for **mad cow** disease, bovine spongiform encephalopathy (BSE), scrapie, Creutzfeldt-Jacob Disease (CJD) prion ...  
[http://www.cyber-dyne.com/~tom/mad\\_cow\\_dis...](http://www.cyber-dyne.com/~tom/mad_cow_dis...)  
[More results like this]
2. **New mad cow woes**  
new worries about **mad cow** disease, Creutzfeldt-Jacob disease, chronic wasting disease in Europe ... New **mad cow** woes British beef blues Curious...  
[http://whyfiles.news.wisc.edu/012mad\\_cow/i...](http://whyfiles.news.wisc.edu/012mad_cow/i...)  
[More results like this]
3. **mad cow disease and cjd**

**Refine**  
Suggestions to narrow your search

- Mad Cow Disease
- Mad Cow Home
- Bovine Spongiform Encephalopathy

**Resources**  
Link collections from experts and enthusiasts

Bovine Spongiform Encephalopathy (BSE)-"Mad Cow..."  
<http://nih.naro.afrc.go.jp/...>

Dossiers / Vache folle - Mad cow  
<http://www.strategic-road.com/...>

Electronic Zoo / NetVet Veterinary Resources ...  
<http://netvet.wustl.edu/...>

Agricultural Biotechnology... Genetically Modified...  
<http://www.agribiz.com/...>

IAQ -- Bovine spongiform encephalopathy  
<http://www.inet.uni2.dk/...>

Reports



# **Additional Biotech Web-Links**

**Generic Bioscience-Related Sites**

**Bioscience Sites**

**Genomic Sites**

**The Genomic Database**

**Pharmacy-Related Sites**

**TC 1600 intranet site:**

**<http://ptoweb/patents/1600/>**



# Generic Bioscience- Related Sites

Genamics BookSeek - Molecular Biology and Biochemistry Books

<http://genamics.com/books/index.htm>

ExPASy – Enzyme Nomenclature Database of Enzymes

<http://www.expasy.ch/enzyme>

Glossary of Biochemistry and Molecular Biology

<http://db.portlandpress.com/db.htm>

Dictionaries/Glossaries in Bio-related Telecommunication

[http://home\\*.inet.tele.dk/p-spitz/Bookmarks/Bookmarks5.html](http://home*.inet.tele.dk/p-spitz/Bookmarks/Bookmarks5.html)

The World Wide Web Virtual Library: Biosciences – Chemistry Resources,  
Academic Institutions, Non-Profit and Commercial Organizations

<http://www.chem.ucla.edu/chempointers.html>





# Generic Bioscience-Related Sites continued...

Chemfinder - This site is created and maintained by Cambridge Soft, makers of ChemDraw. Search chemicals by name, CAS Registry number, molecular weight, molecular formula.

Records include all this information plus (synonyms) and are often the structure of the compound.

*Additional information that may be present:*

Melting Point, Boiling Point, Refractive Index, ACX Number, Evaporation Rate, Flash Point, DOT number, Density, Vapor Density, Vapor Pressure, Water Solubility, EPA Code, RTECS Number

**<http://www.chemfinder.com>**



# Biosciences

MeSH Browser - National Library of Medicine

Terms can be searched to determine if they are MeSH terms

Many of the common terms are mapped to the appropriate MeSH term. Shows where chosen MeSH term fits in the hierarchy of the tree structure (narrow and broader terms)

**[http:// www.nlm.nih. gov/mesh/Mbrowser.html](http://www.nlm.nih.gov/mesh/Mbrowser.html)**

MedLinePlus - Dictionaries

**<http://www.nih.gov/medlineplus/dictionaries.html>**

BioMedNet (general biosciences), plus HMS Beagle Magazine  
Resource Tools, Journal and Web links

**<http://www.bmn.com>**



# Biosciences

Botanical.com Home Page “hypertext version of A Modern Herbal, by Mrs. M. Grieve originally published 1931”

<http://botanical.com>

Genetic Science Learning Center

Educational site about genetic disorders

<http://gslc.genetics.utah.edu>

Integrated Spectral Data Base System for Organic Compounds  
Agency of Industrial Science and Technology of Japan

<http://aist.go.jp/RIODB/SDMS/menu-e.html>

FRONTIERS IN BIOSCIENCE – Database - Gene Knockout  
IMPACT OF GENE KNOCKOUTS ON PHENOTYPE

<http://www.bioscience.org/knockout/dualindex.htm>



# Genome Sites

Comprehensive Microbial Resource by the Institute for Genomic Research  
**<http://tigr.org/tigr-scripts/CMR2/CMRHomePage.spl>**

## The Dog Genome Project

“The Dog genome Project is a collaborative study involving scientists at the University of California, Berkley, the University of Oregon, and the Fred Hutchinson Cancer Research Center. This site is aimed at producing a map of all the chromosomes in dogs.”

**<http://mendel.berkeley.edu/dog.html>**

E.coli Genome Project by the University of Wisconsin, Madison

**<http://www.genetics.wisc.edu/body.htm>**



# The Genome Database Sites

The Hospital for Sick Children, Toronto, Ontario Canada  
Searchable information from the Human Genome Project

<http://gdbwww.gdb.org/gdbhome.html>

Primer on Molecular genetics (Department of Energy)  
This is an older site but, still has good data

<http://www.bis.med.jhmi.edu/Dan/DOE/intro.html>

Science Magazine Functional Genomics

<http://www.sciencemag.org/feature/plus/sfg>

UK Human Genome Mapping Project Resources Center

<http://www.hgmp.mrc.ac.uk>



# The Genome Database continued...

The Wellcome Trust Website Foundation for Biomedical/Biotech Research  
<http://www.wellcome.ac.uk>

NCBI – National Center for Biotechnology Information produced by  
National Library of Medicine – Genome Data and Database  
<http://www.ncbi.nlm.nih.gov>

GenBank – Sequence Searching & Submission Database  
<http://www.ncbi.nlm.nih.gov>



# The Genome Database continued...

Human Genome Project Information – Department of Energy  
Medical, Ethical, Legal and Social Issue coverage.

<http://www.ornl.gov/hgmis>

Summary of Individual Genes/Proteins – Offers concise information  
about the functions of all human genes as well as a list of genes.

<http://bioinfo.weizmann.ac.il/cards/>

PubMed – NCBI – Access to over 11 million Medical Citations from the mid  
60's as well as science Journal's providing full text articles.

<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=PubMed>



# The Genome Database

## continued...

Type in the “Keyword” for a gene/protein and this will display “miscards” which link information on other names, functions, who reported it in the literature, and disease associations. Location is via a series of links off a “Ref Seq” in Genbank

**<http://bioinfo.weizmann.ac.il/cards>**

On-line Pub of reviews of various proteins: This is new so not very many proteins available at this point.

**<http://www.ncbi.nlm.nih.gov:80/PROW/>**

The Scout Report - A publication of the Internet Scout Project Computer Science Department, University of Wisconsin

**<http://www.nature.com/genomics/human/>**

**<http://www.sciencemag.org/genome2001/>**





# Pharmacy Related Sites

American Society of Health System Pharmacists  
[www.ashp.com](http://www.ashp.com)

Practical Information for Today's Pharmacist  
<http://www.pharmacytimes.com>

RxList – Drug Alert Index – Provides information to consumer and medical professional's.  
<http://www.rxlist.com>

MedScape - Medline – Optimized for Physicians, Medical Professionals as well as consumer health related issues.  
<http://www.medscape.com>



# Comments or Questions

## STIC

- **Edward Hart**  
➤ [edward.hart@uspto.gov](mailto:edward.hart@uspto.gov)
- **Toby Port**  
➤ [toby.port@uspto.gov](mailto:toby.port@uspto.gov)

## ITRP

- **Tammy Field**  
➤ [tammy.field@uspto.gov](mailto:tammy.field@uspto.gov)
- **Akintade Dare**  
➤ [akintade.dare@uspto.gov](mailto:akintade.dare@uspto.gov)